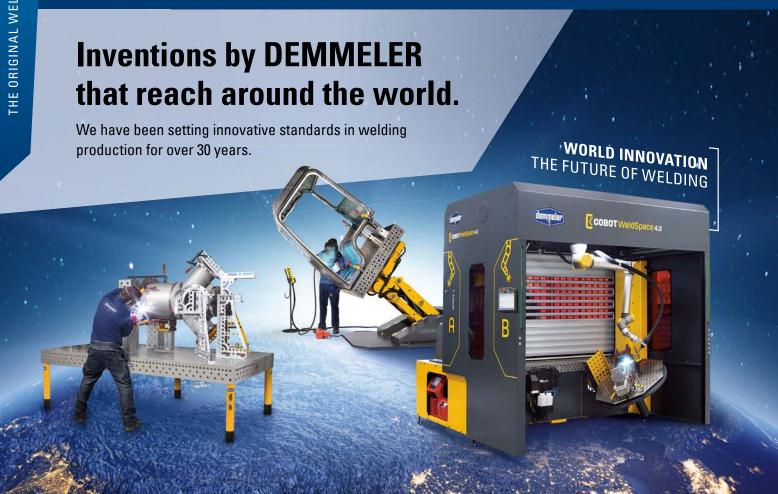




THE welding table

weldingnews



Innovative solutions for craft and industry.



2021 – Our anniversary year Page 2



The optimum 3D welding table for every application Page 6



LIVE demonstration of DEMMELER COBOT WeldSpace 4.0® at the BLECHEXPO Hall 1 / Stand 1606



TRADE FAIR 2021

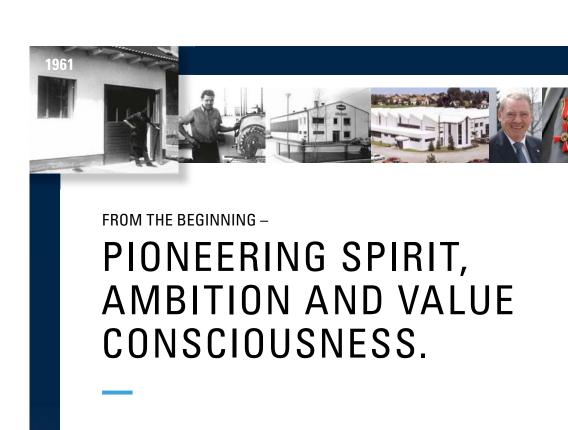
Visit us at the Blechexpo in Stuttgart (Hall 1, Stand 1606).

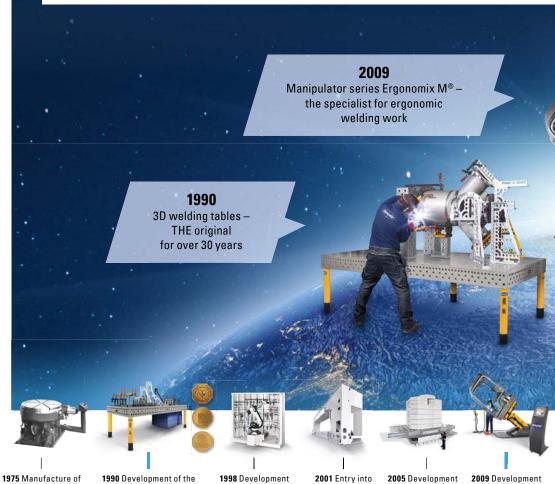
Learn more about professional and automated welding production with our new development COBOT WeldSpace 4.0® at and find out about DEMMELER's wide range of products.











1990 Development of the world novelty 3D-working and welding table systems

1998 Development and production of the first tool arena on a robot basis with 300 tools

the production of basic components for tool machines

2005 Developmer and production of the first NC-turning sliding table

2009 Development and production of the manipulator ERGONOMIX







Inventions by DEMMELER that reach around the world — We have been setting innovative standards in welding production for over 30 years.

In 1961, at the age of 19, Ludwig Demmeler founded the company in a garage. With ideas, courage and great commitment, the company has been able to develop very successfully up to the present day. In 2014, Ludwig Demmeler received the Federal Cross of Merit of the Federal Republic of Germany for his entrepreneurial success and for his great honorary commitment as district craftsman. The second generation, Johannes Demmeler, has been working in the company since 1990 and has been responsible for the success of the group of companies as managing director since 2001.

DEMMELER set the standard on the market as an important milestone as early as 1990 with the invention of the 3D clamping system and 3D welding table D28: Originally intended for the company's own production, the device system proved to be a quantum leap in metal processing and today is an international standard for trade and industry due to the many possible applications and combinations. Today, DEMMELER works with the highest vertical range of manufacture and highly automated, on more than 40,000 m² of factory space. The company's growth was accompanied by several product developments and patents, which were first produced only for their own production facilities. Put through their paces, we deliver these products to tens of thousands of customers worldwide. In addition to the 3D clamping system, these also include the turning, tilting and carousel rotary tables, as well as 3-axis manipulators, tool arenas and tool machine components. With our unique new development, the COBOT WeldSpace 4.0®, we have succeeded in developing a perfect product that professionalises welding workstations, starting with small and medium-sized companies, despite the shortage of skilled workers, and thus makes them fit for the future. You can continue to rely on our quality and innovation of the original, made by DEMMELER, to achieve the best results in the future.



2010 Development and production of carousel turntables 2011 Development and production of the manipulator ROBOTIX 2012 Development and production of the PPS clamping bolt

2013 Development and production of turning units up to 25 t

2014 Development and production of rotary tables with pallet changing systems 2015 Development and production of the 3D welding table system D22 2017 Development and production of rotary tables with direct drive

lopment ction of and production of the les with COBOT WeldSpace 4.0° – a welding cell for automated welding



The new COBOT WeldSpace 4.0® welding cell from DEMMELER comes with everything you need for professional COBOT welding.

In the future, advances in digitalisation and automation will also change the processes in welding production. Particularly in the manual welding of classic sheet metal components, the new technology, welding with collaborative robots, can relieve valuable skilled workers from tiring routine and repetitive tasks. With the **COBOT WeldSpace 4.0® from DEMMELER** even small and medium-sized companies are guaranteed a **quick start** in **automated** and **professional welding production thanks to the fast commissioning and extremely simple programming**. Whether individual parts, series or small batch sizes with a large variety of parts, you save time in welding and reworking. The fully equipped welding cell with welding robot and welding technology offers unique modularity and flexibility in the smallest possible space with a possible four workspaces SPACE A, A1-A2 and SPACE B. The COBOT WeldSpace 4.0® can be operated and programmed without welding expertise.

2 x 3m² work areas

Four workspaces with perfect accessibility from all sides

WorkSpaces



SPACE A

Equipped with a **DEMMELER 3D** welding table 2400 x 1200 mm optionally with system D16, D22 or D28. The SPACE A workspace can optionally be divided into SPACE A1 and SPACE A2 by a partition wall.



SPACE B

Depending on requirements, the **SPACE B** workspace can be **optionally** equipped with another DEMMELER 3D welding table with a maximum size of 2,000 x 1,000 mm or **with a two-axis manipulator with a payload of up to 500 kg**. This enables highly productive welding in the flat position.





Innovative welding technology and sophisticated details

Well-equipped with high-quality components and first-class equipment

















Welding cell with up to four working spaces
 SPACE A (optional A1/A2) plus SPACE B with
 perfect accessibility from all sides.
 Crane loading for set-up and workpiece change

also possible through movable portal.

- Automatically moving protective enclosure with 2 roller shutter doors made from aluminium armour with viewing elements made of protective welding glass.
- Collaborating welding robot UR10e
 (mounted overhead). The COBOT UR10e
 collaborative robot arm has everything that is
 important for robotic welding tasks. A generous
 reach of 1.30 m plus handle and torch, adequate
- load capacity, maintenance-free technology and sophisticated technology. The combination of the free-drive function and the touch display makes the UR10e very easy to operate and program.
- DEMMELER WeldSpace Programming and
 Operating Concept (DWSP). Specially developed software with many functions which together with the innovative 3-button handle makes the creation of complex welding programs child's play. The software guides the operator intuitively through the menu and with the 3-button handle, waypoints and spot welds can be transferred directly into the program. An extensive job library that can be expanded at any time, in which parameters and characteristic curves for typical
- welding applications are stored, leads to the perfect welding result.
- ① Smart Toolbox with three lockable drawers
- () Gas bottle holder for up to 2 gas bottles
- Connection options for a central hall extraction system or a mobile welding fume extraction system on the left or right side and twice at the too of the unit.
- (1) Light-emitting diode strips on all side corners visualise processes and machine states.

Perfectly coordinated welding processes





- Integrated and professional high-performance welding system. Robot welding equipment optionally from the FRONIUS or EWM brands The welding system is integrated in the table substructure to save space.
- Torch cleaning station with wire cutting device and injection unit. Optimum and reliable cleaning of the gas nozzle ensures a reliable welding process and increases system availability.

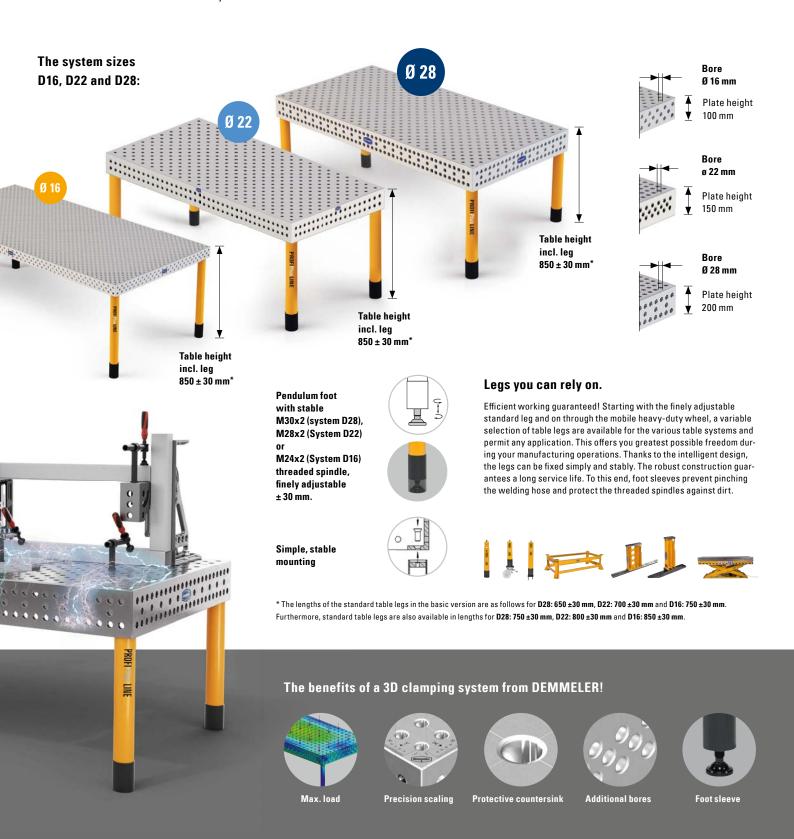


Further information and equipment options

for the DEMMELER COBOT WeldSpace 4.0 $^{\circ}$ you will find on our website www.demmeler.com or simply scan the QR code.

The optimum 3D precision welding table for every application. Top features for even more efficiency during welding.

With our 3D clamping system, you have the right solution for clamping, turning and positioning work pieces readily available. Optimum positioning of the work piece not only makes work more accurate but also much more effective. Above all, the intelligent system grids and the flexible and well thought-out clamping tool range allow you unlimited clamping possibilities. Products from the original DEMMELER 3D clamping system stand out for their extreme robustness and durability.







Leg type

The system grids of the system sizes:

For delicate applications





D16 PROFIPIUSLINE (PL)

- Diagonal grid 50×50 mm
- 3-row bore pattern on the table side plates, 50 mm grid in the top, middle and bottom row

PROFIEcoLINE (PE)

- Grid 50 x 50 mm
- 3-row bore pattern on the table side plates, 50 mm grid in the top, middle and bottom row

For light and medium-duty applications



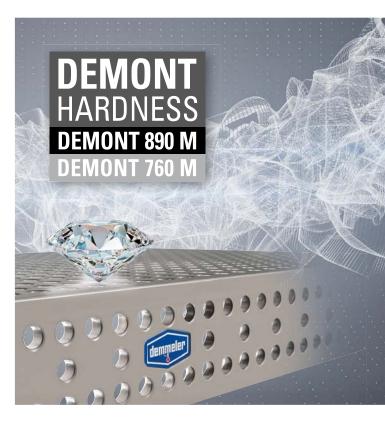




- PROFIPremiumLINE (PP)
- Grid 50 x 50 mm
- 3-row bore pattern on the table side plates, 50 x 50 mm diagonal grid



- Diagonal grid 100 × 100 mm
- 2-row bore pattern on the table side plates, 50 mm grid



Our 3D welding tables achieve the best surface properties with the specially optimised DEMONT hardening process. This makes them even more wear-free and durable.

For everyday, large welded constructions





D28 PROFIPremiumLINE (PP)

- Grid 50 x 50 mm
- 3-hole drilling pattern in the table side plates, 50 mm grid in the top and bottom rows with additional 100 mm grid in the middle



D28 PROFIPIUSLINE (PL)

- Diagonal grid 100×100 mm
- 3-hole drilling pattern in the table side plates, 50 mm grid in the top and bottom rows with additional 100 mm grid in the middle





- Grid 100 x 100 mm
- 3-hole drilling pattern in the table side plates, 50 mm grid in the top and bottom rows with additional 100 mm grid in the middle



D28 HobbyLINE (H)

- Grid 100 x 100 mm
- Worktop approx. 25 mm high with system bores in a 100 mm x 100 mm grid

- · All our welding tables are generously sized, super sturdy and optimised with FEM calculations on principle.
- Axis designation in x and y-direction. Standard version includes precision scaling.
- Optimum bolt and clamp insertion with simultaneous protection of the tabletop against damage from materials, even in case of extreme strain on the system bore or when used with aluminium.
- Additional bores in the side stanchion for even more clamping options.
- The extremely sold design ensures very high load-bearing capacity 3,000 kg per leg. The foot sleeve prevents pinching and reduces wear at the cable-hose assembly. This also provides a convenient way of using the ground connector. It also protects the threaded spindle against dirt and wear. Fine adjustments are possible and fixing is stable and simple.

Modular 3D precision welding tables of the D28 system series — with the best characteristics

R PREMIUM PLANTS

For the toughest requirements

When using the 3D clamping system, the optimum flow of electricity between the electrode / filler wire and ground connector is vitally important. That is why DEMMELER optimises the material properties of its worktables and accessories and guarantees outstanding precision for optimum form fits.



Highly resilient

All our welding tables are generously sized, super sturdy and optimised with FEM calculations on principle.





Precise work made easy

with coordinate marking of the bores in the X and Y-direction and fine scaling

The perfect job

The foot sleeve prevents pinching and reduces wear at the cablehose assembly. It also protects the threaded spindle against dirt and wear. Fine adjustments are possible and fixing is stable and simple (M 30×2).

Flexible clamping

Additional bores in the side stanchion for even more clamping options. For all D28 system lines, 3-hole drilling pattern in the table side plates, 50 mm grid in the top and bottom rows with an additional 100 mm grid in the middle

Extremely solid for highest payloads

for highest payloads -3,000 kg per foot.

Different foot variants are possible for system size D28





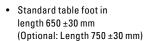












- · Telescoping leg
- Heavy-duty wheel
- · Anchoring leg
- Scissor lift
- Leg for spacer block
- Shifting leg
- Holding frame

Find out about the foot type variants and connecting elements online as well:







3D precision welding table D28



DEMMELER 3D WELDING TABLE PROFIPIUSLINE (PL) 28

SOLID

HARDNESS DEMONT 760 M

HARDNESS DEMONT 890 M





D28



- Worktop with D28 system bores in a $100 \times 100 \ mm$ double grid
- 3-hole drilling pattern in the table side plates, 50 mm grid in the top and bottom rows with an additional 100-mm grid in the middle
- Table sizes optionally available in hardened version, DEMONT 760 M and DEMONT 890 M
- Precision scaling with millimetre graduation
- Coordinate marking of the bores in the X and Y-direction

TABLE SIZE L X W	TABLE WITH STANDARD LEG	TABLE HARDENED DEMONT 760 M	TABLE HARDENED DEMONT 890 M
1000 x 1000 mm	PL28-01001-001	PL28-01001-011	PL28-01001-021
1200 x 800 mm	PL28-11019-001	PL28-11019-011	PL28-11019-021
1500 x 1000 mm	PL28-01011-001	PL28-01011-011	PL28-01011-021
1200 x 1200 mm	PL28-01056-001	PL28-01056-011	PL28-01056-021
1500 x 1500 mm	PL28-01031-001	PL28-01031-011	PL28-01031-021
2000 x 1000 mm	PL28-01002-001	PL28-01002-011	PL28-01002-021
2000 x 2000 mm	PL28-01006-001	PL28-01006-011	PL28-01006-021
2400 x 1200 mm	PL28-01003-001	PL28-01003-011	PL28-01003-021
3000 x 1500 mm	PL28-01004-001	PL28-01004-011	PL28-01004-021
4000 x 2000 mm	PL28-01005-001	PL28-01005-011	PL28-01005-021
4800 x 2400 mm	PL28-11085-001	PL28-11085-011	PL28-11085-021



Special sizes available upon request! On request the table is also available in a stainless steel version!

D28

DEMMELER 3D WELDING TABLE PROFIEcoLINE (PE) 28





- Worktop with D28 system bores in a 100 x 100 mm grid
- 3-hole drilling pattern in the table side plates, 50 mm grid in the top and bottom rows with additional 100 mm grid in the middle
- Table sizes optionally available in hardened version, DEMONT 760 M and DEMONT 890 M
- Precision scaling with millimetre graduation
- Coordinate marking of the bores in the X and Y-direction

TABLE SIZE TABLE WITH STANDARD LEG		TABLE HARDENED DEMONT 760 M	TABLE HARDENED DEMONT 890 M
1000 x 1000 mm	PE28-01001-001	PE28-01001-011	PE28-01001-021
1200 x 800 mm	PE28-11019-001	PE28-11019-011	PE28-11019-021
1500 x 1000 mm	PE28-01011-001	PE28-01011-011	PE28-01011-021
1200 x 1200 mm	PE28-01056-001	PE28-01056-011	PE28-01056-021
1500 x 1500 mm	PE28-01031-001	PE28-01031-011	PE28-01031-021
2000 x 1000 mm	PE28-01002-001	PE28-01002-011	PE28-01002-021
2000 x 2000 mm	PE28-01006-001	PE28-01006-011	PE28-01006-021
2400 x 1200 mm	PE28-01003-001	PE28-01003-011	PE28-01003-021
3000 x 1500 mm	PE28-01004-001	PE28-01004-011	PE28-01004-021
4000 x 2000 mm	PE28-01005-001	PE28-01005-011	PE28-01005-021
4800 x 2400 mm	PE28-11085-001	PE28-11085-011	PE28-11085-021

HARDNESS

DEMONT 760 M

HARDNESS

DEMONT 890 M



PROFIPlus**LINE**

Well equipped from the start.

Selected clamping accessories in a set.

D28

D28 PROFIPlusLINE Set 710

Item no.: D28-52000-710 (44-piece)



D28

D28 PROFIPlus**LINE Set 720**

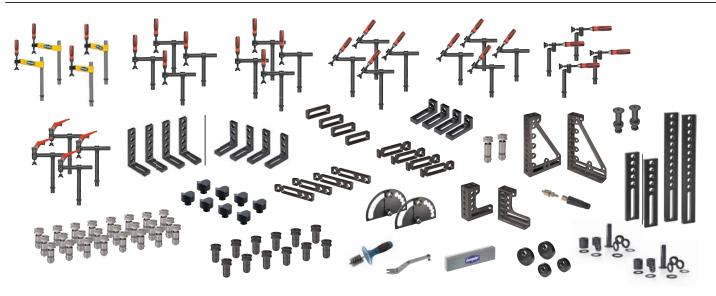
Item no.: D28-52000-720 (83-piece)



D28

D28 PROFIPIusLINE Set 730

Item no.: D28-52000-730 (120-piece)





Sets also available with PPC bolts instead of PC bolts. Surcharge for sets with PPC bolts:

→ Set D710: Item no. D28-52000-711 | Set D720: Item no. D28-52000-721 | Set D730: Item no. D28-52000-731





Accessory sets PROFIPIusLINE (PL) 28

	D 710	D 720	D 730		Set components in detail
	4	4	4	PE28-03001-000	Clamping and locating angle 175 x 175 x 50 mm
		2	4	D28-03001-005	Clamping and locating angle 175 x 75 x 50 mm
		2	1	PL28-03002-000	Clamping and locating angle right 300 x 275 mm
		2	1	PL28-03002-001	Clamping and locating angle left 300 x 275 mm
			1	PL28-03003-000	Clamping and locating angle right 600 x 375 mm
7			1	PL28-03003-001	Clamping and locating angle left 600 x 375 mm
	2	2	4	PE28-03008-000	Clamping and locating angle 275 x 175 x 50 mm
20	4	2	4	D28-05001-000	Universal stop / large 225 × 50 × 25 mm
		4	2	D28-05003-000	Stop strip L 500 – 500 × 100 × 25 mm
			2	D28-05003-001	Stop strip L 800 – 800 × 100 × 25 mm
20	2	4	4	D28-05009-000	Universal stop L 300 – 300 × 50 × 25 mm
			2	D28-05013-000	Locating disk Ø 75 - 25-50 mm
		2	2	D28-05013-001	Locating disk Ø 100 - 25-75 mm
			2	D28-05013-010	Angle-setting template
3	4	4	4	D28-05015-000	Displacement stop 150, 50× 25 mm
	12	20	24	D28-06001-000	PC-bolt, short
			2	D28-06002-000	PC-bolt, long
•	6	10	12	D28-06009-000	Stop and positioning bolt Ø 28 mm
i		2	2	D28-07001-000	Compensating swing clamp 150 mm with spindle
1	4	2	2	D28-07002-000	Compensating swing clamp 200 mm with spindle
_		4	4	D28-07005-000	Screw clamp 180° with spindle, vertical tube 220 mm
-		4	4	D28-07005-014	Screw clamp 180° with spindle, vertical tube 350 mm
-			4	D28-07005-015	Screw clamp 180° with quick-action clamping cylinder
-		2	4	D28-07008-000	Variable screw clamp 90° with adjusting screw
	4	4	4	D28-07009-000	Variable screw clamp 45° with adjusting screw
Γ			4	D28-07009-011	Variable screw clamp 45° with spindle, clamping tube 350 mm
æ.		2	2	D28-09001-000	Spacer set , 11-pieces
			2	D28-09001-005	Spacer set with thread Ø 50 mm
			8	D28-09003-000	Prism holder steel, burnished Ø 58 mm
	1	1	1	D28-10002-000	Round brush Ø 28 mm
		1	1	D00-10007-000	Bench stone
_			1	D00-10009-000	Ground connector D16 / D22 / D28
_	1	1	1	D00-10016-001	Assembly lever 250 × 40 mm, AF 14



Protect and care for your welding table

With our care products you can professionally protect, clean and maintain your welding table. This not only increases the life of your welding table, but also ensures a clean and level work surface.

1 Protective spray

- Prevents the adhesion of weld spatter on the surface
- Temporary corrosion protection
- Good cleaning effect
- Without chlorinated hydrocarbons, silicone-free, non-flammable
- Biodegradable

Protective spray in 1 litre pump bottle Item no.: D00-10005-000

Protective spray in 5-litre canister

Item no.: D00-10006-000

2 Bench stone

 To care for the system surfaces of worktables and system components

Item no.: D00-10007-000

3 Round brush D28 mm

- For cleaning the system bores
- · With splash guard

Item no.: D28-10002-000

You can individually assemble or supplement your sets with the large selection of DEMMELER accessories. The DEMMELER general catalogue is available at www.demmeler.com.



PROFIECOLINE As starter sets or as extensions.

Selected clamping accessories in a set.

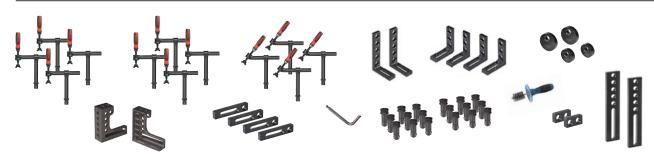
D28 PROFIEcoLINE Set 710

Item no.: E28-52000-710 (32-piece)



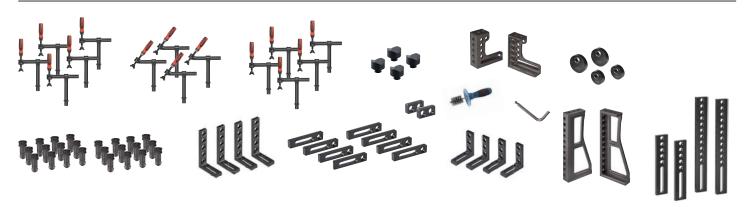
D28 PROFIEcoLINE Set 720

Item no.: E28-52000-720 (52-piece)



D28 PROFIEcoLINE Set 730

Item no.: E28-52000-730 (74-piece)





Sets also available with PC bolts instead of EcoLINE bolts: Surcharge for sets with PC bolts:

→ Set D710: Item no. E28-52000-711 | Set E720: Item no. E28-52000-721 | Set E730: Item no. E28-52000-731



Sets also available with PPC bolts instead of EcoLINE bolts. Surcharge for sets with PPC bolts:

→ Set D710: Item no. E28-52000-712 | Set E720: Item no. E28-52000-722 | Set E730: Item no. E28-52000-732

DEMMELER welding and clamping systems are modular and flexible. All sets and accessories can be used at all the 3D worktables within the system. What is more, you can individually assemble or supplement your sets with the large selection of DEMMELER accessories! The DEMMELER general catalogue is available at www.demmeler.com.

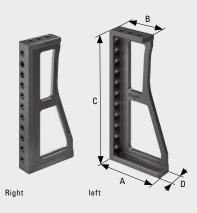




Accessory sets ProfiEcoLINE (PL) 28

E 710	E 720	E 730		Set components in detail
4	4	4	PE28-03001-000	Clamping and locating angle 175 x 175 x 50 mm
	1	1	PL28-03002-000	Clamping and locating angle right 300 x 275 mm
	1	1	PL28-03002-001	Clamping and locating angle left 300 x 275 mm
		1	PE28-03003-000	PE Clamping and locating angle right 600 x 275 mm
		1	PE28-03003-001	PE Clamping and locating angle left 600 x 275 mm
	2	4	PE28-03008-000	Clamping and locating angle 275 x 175 x 50 mm
4	4	8	E28-05001-000	Eco Universal stop large 225 x 50 x 25 mm
2	2	2	E28-05002-000	Eco Universal stop large 100 x 50 x 25 mm
	2	2	D28-05003-000	Stop strip L 500 – 500 × 100 × 25 mm
		2	D28-05003-001	Stop strip L 800 – 800 × 100 × 25 mm
	2	2	E28-05013-000	Eco Locating disk Ø 75 - 25-50 mm
2	2	2	E28-05013-001	Eco Locating disk Ø 100 - 25-75 mm
12	18	24	E28-06001-000	EcoLINE bolt, short
6	8	10	D28-07005-000	Screw clamp 180° with spindle, vertical tube 220 mm
	4	4	D28-07009-000	Variable screw clamp 45° with adjusting screw
		4	D28-09003-000	V-block location, steel Ø 58 mm
1	1	1	D28-10002-000	Round brush Ø 28
1	1	1	D28-10008-005	Allen key SW8, with ball head

Reduced to the essentials, yet tremendously flexible



D28 Clamping and locating angles PROFIEcoLINE, hardened casting

- System bores in a 50 mm grid
- 3 usable stop sides for all common stopping and clamping tasks
- Hardened casting
- Cost-effective version
- Three supporting surfaces
- · With precision scaling
- With face plate
- A 275 mm, B 190 mm, C 600 mm, D 80 mm
- Weight approx. 19 kg

Item no.: PE28-03003-000 (right) Item no.: PE28-03003-001 (left)



D28 smart toolbox for 3D welding table systems D28

- The ideal complement to the "clever toolbox"
- Robust drawer base units made of sheet steel
- Optionally with two or three drawer elements
- Protects tools and small parts safely from dirt and welding spatter
- Max. Load capacity "smart toolbox" approx. 125 kg
- Max. Load capacity per drawer approx. 50 kg
- A 275 mm, B 190 mm, C 600 mm, D 515 mm

(1) Underbench drawer cabinet with two drawer pull-outs

Item no.: D28-11001-032

(2) Underbench drawer cabinet with three drawer pull-outs
Item no.: D28-11001-033

The 3D welding tables of the system series D22 –

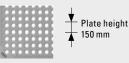
For light and medium-duty applications



D22

DEMMELER 3D WELDING TABLE PROFIPremiumLINE (PP) 22





- Worktop with D22 system bores in a 50 × 50 mm grid
- 3-row bore pattern on the table side plates in 50 × 50 mm diagonal grid
- Table sizes optionally available in hardened version, DEMONT 760 M
- · Precision scaling with millimetre graduation
- Coordinate marking of the bores in the X and Y-direction

SOLID





TABLE SIZE L X W	TABLE WITH STANDARD LEG	TABLE HARDENED DEMONT 760 M
1000 x 1000 mm	PP22-01001-001	PP22-01001-011
2000 x 1000 mm	PP22-01002-001	PP22-01002-011
2400 x 1200 mm	PP22-01003-001	PP22-01003-011
3000 x 1500 mm	PP22-01004-001	PP22-01004-011

Special sizes available upon request! On request the table is also available in a stainless steel version!

D22

DEMMELER 3D WELDING TABLE PROFIPIUS LINE (PL) 22









 2-hole drilling pattern in the table side plates with D22 system bores in 50 mm grid

- Table sizes optionally available in hardened version, DEMONT 760 M
- Precision scaling with millimetre graduation
- · Coordinate marking of the bores in the X and Y-direction

FROM THE INVENTOR

OFMMELE?

HARDNESS DEMONT 760 M



TABLE SIZE L X W	TABLE WITH STANDARD LEG	TABLE HARDENED DEMONT 760 M		
1000 x 1000 mm	PL22-01001-001	PL22-01001-011		
2000 x 1000 mm	PL22-01002-001	PL22-01002-011		
2400 x 1200 mm	PL22-01003-001	PL22-01003-011		
3000 x 1500 mm	PL22-01004-001	PL22-01004-011		

Special sizes available upon request! On request the table is also available in a stainless steel version!

Different foot variants are possible for this system size D22







- Standard table foot in length 700 \pm 30 mm (Optional: Length 800 \pm 30 mm)
- Telescoping leg (standard leg) with stable M 24 × 60 threaded spindle, finely adjustable ± 30 mm
- Heavy-duty wheel
- Anchoring leg

Errors and changes reserved.
Offer is non-binding.



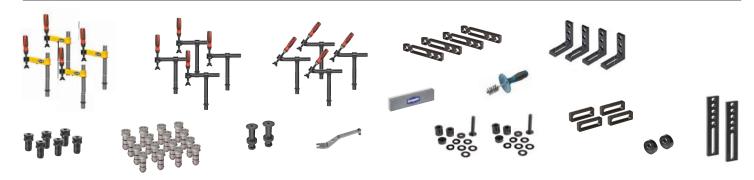


Accessory set PROFIPIusLINE (PL) 22

As starter sets or as extensions. Selected clamping accessories in a set.

D22 PROFIPlusLINE Set 720

Item no.: D22-52000-720 (57-piece)



	D 720	D 730		Set components in detail
B		1	PE22-03003-000	PE stop and clamping bracket, right, 500 x 275 mm, hardened
E		1	PE22-03003-001	PE stop and clamping bracket, left, 500 x 275 mm, hardened
B		1	PE22-03004-000	PE stop and clamping bracket, right, 750 x 275 mm, hardened
A		1	PE22-03004-001	PE stop and clamping bracket, left, 750 x 275 mm, hardened
	16	20	E22-06025-000	EcoLINE bolt D22, short, SW 6
Ī		4	E22-06026-000	EcoLINE bolt D22, long, SW 6
Ť	6	8	D22-06009-000	Stop and positioning bolts Ø 22 mm, 31 x 52 mm
Ţ	2	2	D22-09001-005	Spacer set with thread - Ø 45x125 mm, height compensation 22-105 mm, continuous
9	2	2	D22-05013-000	Locating disk Ø 75 – stop dimension 25-50 mm, continuous
	2	2	D22-09001-000	Spacer set, 11 pieces – Ø 50 x 125 mm, height compensation 5-100 mm
	4	4	D22-05015-000	Displacement stop – 150 x 50 x 18 mm, scale on both sides
— 0		4	D22-05001-000	Universal stop, large, 225 x 50 x 18 mm
1 20	4	4	D22-05009-000	Universal stop L 300, 300 x 50 x 18 mm
L	4	4	PE22-03001-000	Clamping and locating angle, 175 x 175 x 50 mm, bore/oblong hole
į	2	2	D22-05003-000	Stop strip L 500, 500 × 100 × 18 mm
4	4	4	D22-07009-000	Variable screw clamp 45° with adjusting screw, vertical tube 300 mm
	4	4	D22-07005-000	Screw clamp 180° with spindle, vertical tube 300 mm
-	4	6	D22-07001-000	Compensating swing clamp 180° with spindle, vertical tube 300 mm
	1	1	D22-10002-000	Round brush, Ø 22 mm, with protective cap
	1	1	D22-10016-001	Assembly lever - 250x45 mm, AF 10
-	1	1	D00-10007-000	Bench stone 200x50x25 mm, 2-sided

D22 PROFIPlusL	INE Set 730
Item no.: D2	2-52000-730 (77-piece)
4	¥1
141	
1/1	
	- 12
BERR	
BEEF	
BBBB	



Sets also available with PPC bolts instead of EcoLINE bolts. Surcharge for sets with PPC bolts:

→ Set D710: Item no. D22-52000-711 | Set D720: Item no. D22-52000-721 | Set D730: Item no. D22-52000-731

The 3D welding tables of the D16 system series -

for delicate applications



D16

DEMMELER 3D WELDING TABLE PROFIPIUSLINE (PL) 16











- Worktop with D16 system bores in a 50 x 50 mm double grid
- 3-row bore pattern on the table side plates, 50 mm grid in the top, middle and bottom row
- Table sizes optionally available in hardened version, DEMONT 760 M
- Precision scaling with millimetre graduation
- Coordinate marking of the bores in the X and Y-direction

Special sizes available upon request! On request the table is also available in a stainless steel version!

¹Consists of 2x 1500 x 1500 x 100 mm.

TABLE SIZE L X W	TABLE WITH STANDARD LEG	TABLE HARDENED DEMONT 760 M
1000 x 500 mm	PL16-01000-001	PL16-01000-011
1000 x 1000 mm	PL16-01001-001	PL16-01001-011
1200 x 800 mm	PL16-11019-001	PL16-11019-011
1200 x 1200 mm	PL16-01056-001	PL16-01056-011
1500 x 1000 mm	PL16-01017-001	PL16-01017-011
1500 x 1500 mm	PL16-01011-001	PL16-01011-011
2000 x 1000 mm	PL16-01002-001	PL16-01002-011
2400 x 1200 mm	PL16-01003-001	PL16-01003-011
3000 x 1500 mm ¹	PL16-01004-001	PL16-01004-011
1500 x 1000 mm 1500 x 1500 mm 2000 x 1000 mm 2400 x 1200 mm	PL16-01017-001 PL16-01011-001 PL16-01002-001 PL16-01003-001	PL16-01017-011 PL16-01011-011 PL16-01002-011 PL16-01003-011

D16

DEMMELER 3D WELDING TABLE PROFIEcoLINE (PE) 16

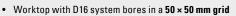












- 3-row bore pattern on the table side plates, 50 mm grid in the top, middle and bottom row
- Table sizes optionally available in hardened version, DEMONT 760 M
- Precision scaling with millimetre graduation
- Coordinate marking of the bores in the X and Y-direction

Special sizes available upon request! Table can be supplied on request also available in stainless steel!

¹Consists of 2x 1500 x 1500 x 100 mm.

TABLE SIZE L X W	TABLE WITH STANDARD LEG	TABLE HARDENED DEMONT 760 M
1000 x 500 mm	PE16-01000-001	PE16-01000-011
1000 x 1000 mm	PE16-01001-001	PE16-01001-011
1200 x 800 mm	PE16-11019-001	PE16-11019-011
1200 x 1200 mm	PE16-01056-001	PE16-01056-011
1500 x 1000 mm	PE16-01017-001	PE16-01017-011
1500 x 1500 mm	PE16-01011-001	PE16-01011-011
2000 x 1000 mm	PE16-01002-001	PE16-01002-011
2400 x 1200 mm	PE16-01003-001	PE16-01003-011
3000 x 1500 mm ¹	PE16-01004-001	PE16-01004-011

Different foot variants are possible for these system sizes









- Standard table foot in length 750 ±30 mm (Optional: Length 850 ±30 mm)
- Telescopic foot with stable M 24×2 . Threaded spindle, finely adjustable $\pm\,30\,\text{mm}$
- Heavy-duty wheel
- Anchoring leg

Errors and changes reserved. Offer is non-binding.





Accessory sets PROFIPIusLINE (PL) 16

As starter sets or as extensions. Selected clamping accessories in a set.

D16

D16 PROFIPIusLINE Set 155

Item no.: D16-52000-155 (39-piece)



	D 155	D 255		Set components in detail
	4	4	D16-03001-000	Clamping and locating angle 90 x 90 x 25 mm
	2	2	D16-03001-002	Clamping and locating angle 90 x 37.5 x 25 mm
00	2	4	D16-05002-000	Universal stop / small / L55
L		1	D16-03002-000	Clamping and locating angle right 200 x 137.5 x 50 mm
L		1	D16-03002-001	Clamping and locating angle left 200 x 137.5 x 50 mm
		4	D16-03008-000	Clamping and locating angle 140 x 90 x 25 mm
	6	8	D16-05001-004	Universal stop with scale 115 x 25 x 12 mm
2	2	2	D16-05009-000	Universal stop / L 165
		2	D16-05015-000	Displacement stop 150 x 25 x 12 mm
Î	10	20	D16-06001-000	PC bolt, short Ø 16
Ī		2	D16-06002-000	PC bolt, long Ø 16
T		4	D16-06009-000	Stop and positioning bolt Ø 16
H	4	6	D16-07001-000	Compensating swing clamp 180° with spindle
+	2	4	D16-07005-000	Screw clamp 180° with spindle
T	2	2	D16-07008-000	Variable screw clamp 90° with adjusting screw
4		4	D16-07009-000	Variable screw clamp 45° with adjusting screw – vertical tube 130 mm
مهلوه	2	4	D16-09001-000	Spacer set, 9-pieces Ø 25 x 60 mm
		2	D16-09003-000	V-block location, steel Ø 80 mm
		8	D16-09004-000	V-block location, steel Ø 50 mm
-	1	1	D16-10002-000	Round brush Ø 16
0	1	1	D00-10007-000	Bench stone
/	1	1	D16-10008-000	Hexagonal wrench AF 8

DEMMELER welding and clamping systems are modular and flexible. All sets and accessories can be used at all the 3D worktables within the system. What is more, you can individually assemble or supplement your sets with the large selection of DEMMELER accessories! The DEMMELER general catalogue is available at www.demmeler.com.

D16 PROFIPIUSLINE Set 255

Item no.: D16-52000-255 (87-piece)

This clamping accessory should not be missing in any workshop. Tools for every clamping situation.



Precise holding of tube elements





D28 Adjustment V-block D28 ø 58 mm

- · Precise holding of tube elements
- Screwed in with countersunk head screw
- For tube diameter up to 70 mm
- Steel, blackened
- Prism mounts also available in stainless steel and POM
- Weight approx. 0.68 kg
- A 35 mm, ø B 58 mm
- Angle: 130°

Item no.: D28-09003-000

Can be locked and fixed on five sides in 25 mm increments



D28 Universal stop D28 large with four recesses

- Combination bore / slotted hole, infinitely adjustable via slotted hole
- With PC-bolt in table hole pattern 5-sided locking and fixation in 25 mm grid
- 360° adjustable positioning in 45° increments
- With precision scaling
- · Steel, hardened
- Weight approx. 1.2 kg
- A 225 mm, B 50 mm, C 25 mm

Item no.: D28-05001-000

Optimal for use as table extension, e.g.

Spacer block D28 U-Form steel L 1000 Item no.: D28-04002-001









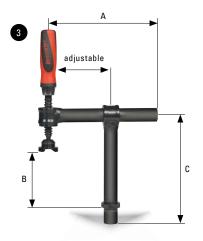








For fast, powerful and accurately positioned clamping

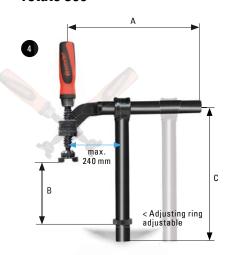


D28 Screw clamp 180° with spindle

- With adjustable, sturdy round tube, each tube can be used individually
- Adjustable projection
- Can be inserted through system bores, eliminating avoidable interfering edges
- Highest force transmission with sturdy round tubes
- Entire clamping mechanism is exchangeable
- Clamping pad exchangeable
- Available in two further spans 190 mm and 420 mm available
- A 220 mm, B 270 mm, C 350 mm

Span max. 270 mm Item no.: D28-07005-014

Stepless swivel – rotate 360°



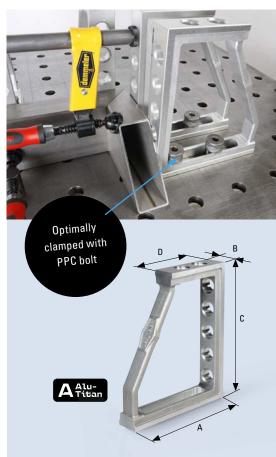
D28 Performance screw clamp with spindle

- Universally usable for the horizontal/vertical and oblique clamping of work pieces
- Continuously swivelling and 360° rotating
- Adjustment range of clamping spindle over 130 mm by rotating the retaining tube without having to move the clamp (previous version: 68 mm)
- Can be folded together flat (less storage space required)
- With three exchangeable actuation modes (spindle, short boring spindle and quick-action clamping cylinder)
- A 240 mm, B 180 mm, C 270 mm
- Weight approx. 2.2 kg

Item no.: D28-07009-033



Suitable system accessories, such as actuation types or taper fitting and V-block locations for screw clamps, can be found online at www.demmeler.com.



Flexible stop – Foot plate can be moved in 50 mm increments

D28 Clamping and locating angle D22 PL 300, aluminium-titanium

- Extended face plate with two bores in the face plate
- Extended mounting plate with oblong hole 150
 – therefore moveable on 50 mm worktop grid
- A 275 mm, B 190 mm, C 600 mm, D 150 mm
- Weight: 1.7 kg (D22), 1.8 kg (D28)

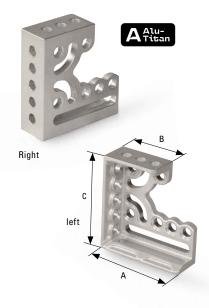
D22: Item no.: PP22-03001-017 D28: Item no.: PP28-03001-017

Find out about the entire range of stops and clamping brackets online:



Work can be so easy.

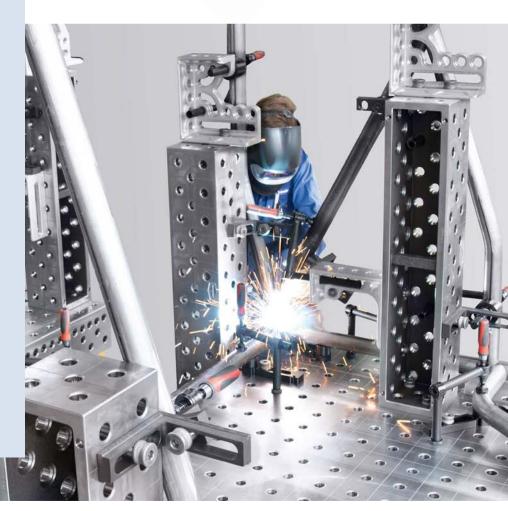
Tools with multiple application possibilities.



D28 Clamping and locating angle D28 PP 300, aluminium-titanium

- Stiffeners in the corners with 90° system groove in kidney shape
- Hole grid at 50 mm intervals, also on all angle sides
- Extended face plate with additional bore
- 4 stop faces / usable surfaces
- 2x system groove 200 mm
- 2x system groove in 90° kidney shape
- With precision scaling
- Anodised
- Weight: 5 kg
- A 275 mm, B 180 mm, C 300 mm

Item no.: P28-03002-002 (right) Item no.: P28-03002-003 (left)







Tool storage options

Order with system.

With these accessory trolleys, welding table workplaces are always well organised.



Mobile accessory trolleys in any system size

D28 D22 D16 Accessory cart

- · Establishes a tidy and orderly workstation
- · Faster access to the system components
- Large angles are safely and conveniently stored inside the cart
- Fast to transport thanks to four sturdy 360° swivelling casters, one of them locking.
- · System components not included in the scope of delivery.
- D28: A 1,000 mm, B 650 mm, C 1,010 mm, weight: approx. 60 kg
 D22: A 800 mm, B 503 mm, C 1,020 mm, weight: approx. 55 kg
 D16: A 600 mm, B 450 mm, C 870 mm, weight: approx. 35 kg

Accessory cart D28: Item no.: D28-11001-000 Accessory cart D22: Item no.: D22-11001-000 Accessory cart D16: Item no.: D16-11001-002

D16 Tool trolley D16

- Four closed drawers protect the contents against from contamination and provide quick access to the system parts
- Locking
- Mobile on four casters, two of them swivelling and locking
- · System components not included in the scope of delivery
- A 740 mm, B 560 mm, C 970 mm

Item no.: D16-11001-000

Our practical drawer base cabinets "clever toolbox" for the systems D28 and D22 offer a lot of storage space and protect your clamping accessories from dirt and welding spatter.

D28 clever toolbox D28

Item no.: D28-11001-015

Optionally orderable:



(1) Universal box D28 Item no.: D28-11001-017

(2) Bolt magazine D28 Item no.: D28-11001-016

Plug-in bolt bottom D28 Item no.: D28-11001-018

D22 clever toolbox D28

Item no.: D22-11001-015

Optionally orderable:



(1) Universal box D22 Item no.: D22-11001-017

(2) Bolt magazine D22 Item no.: D22-11001-016

Plug-in bolt bottom D22 Item no.: D22-11001-018

The **clever toolbox** can be mounted on all four sides and has a load capacity of up to 170 kg. (10 locking pins, bottom are included in the scope of delivery.)







European patent No. 2569548

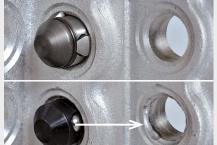
Original DEMMELER PPC clamping bolt

Self-centring, force-locked and low-wear clamping

The DEMMELER PPC bolt's cone clamping system makes the bearing surface 100 times larger. This results in much higher contact pressure, therefore securing work pieces more reliably. Even force distribution also reduces bore hole wear compared to conventional bolts.

PPC bolt





Comparison of clamping pins and the polygon bolt from DEMMELER

Using the PPC bolt prevents serious damage to the bores that can be caused by clamping pins, for example with aluminium-titanium blocks.

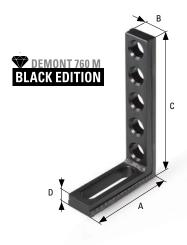


D28 THE ORIGINAL – PATENTED – PPC bolt D28 short

- · Highest clamping force with large stroke
- Polygon-shaped expansion elements reduce the wing loading
- Very quick to clamp and unclamp
- Force-locking through full-area contact
- Easy on materials
- Extremely robust
- Low susceptibility to dirt
- Limit clamping range 41-47

Item no.: D28-06025-000





D28 Clamping and locating angle PE large bore / oblong hole

- Combination system bores / oblong hole for numerous clamping possibilities
- Precision scaling on both sides
- Two full angle surfaces therefore can be used from both sides
- Compatible with all clamping and locating angles so that the oblong hole can be used to form a height-adjustable support
- Hardened casting
- A 275 mm, B 190 mm, C 600 mm, D 25 mm
- Weight approx. 2.4 kg

Item no.: PE28-03008-000





Lifting | turning | swivelling



Features of the Ergonomix M[®] and optimal expansion possibilities



Series equipment

- with pendant control panel 2
- with foot switch 3
- (4) **Teach controller**M2000: Item no. Z00-01001-024
 M4000: Item no. Z00-01001-025
- 5 Laser scanner Item no. Z00-01010-001
- 6 Rotary feedthroughs

for querying the state of fixtures, electrical:
Item no. Z00-01004-005
for pneumatic clamping fixtures:
Item no. Z00-01004-008
for hydraulic clamping fixtures:
Item no. Z00-01004-009

① Ground connector

max. 400 A at 60% ED: Item no. Z00-01000-002 max. 700 A at 60% ED: Item no. Z00-01000-009

Basic model Ergonomix M®

Description		M 2000 / V1250	M 2000 / V2500	M 2500 / 19000	M 4000
Bearing load (w/o worktop)	[kg]	2000	2000	2500	4000
D=max. interference area at 180° (w/o worktop) At height	[mm] [mm]	1000 650	1000 650	1000 650	1500 520
Max. rotation speed	[RPM]	1.4	1.4	1.4	2
Min. rotation speed	[RPM]	0.75	0.2	0.2	0.2
Torque	[Nm]	1250	2500	2500	5000
Tilt angle	[°]	180	180	180	180
Moment of tilt	[Nm]	8000	8000	19000	32000
A=min. height (w/o worktop)	[mm]	490	490	490	750
B=max. Height at 180° swivel angle	[mm]	970	970	970	983
C=max. Height at 90° swivel angle	[mm]	1480	1480	1480	1680
Pendant control panel		_ <	<u> </u>	<u>√</u>	<u>√</u>
10-speed control			<u> </u>	√	<u>√</u>
Motors / rotary axis		1	2	2	2
Item no.		M02-02000-006	M02-02000-007	M02-02000-047	M04-04000-000

Specifications without worktop. Other equipment details on request.

Errors and changes reserved. Offer is non-binding. Prices net ex-work plus VAT.

Series equipment

O Special equipment

The entire variety of the DEMMELER product portfolio to click and browse ...



systems and welding

tables





WeldSpace 4.0



NC rotary tables





Website and main catalogue available in 14 languages

As the inventor of the modular 3D welding table and clamping systems, we shape our development and innovation around the modular clamping and manipulation of components. Numerous products are developed and redesigned each year. Our general catalogue comprises 620 pages and offers a complete overview of our entire product line with many interesting example applications. We would be happy to send you the catalogue and brochures on our entire product portfolio in printed or digital form. PDFs of the brochures are also available for download at www.demmeler.com.

Convenient online ordering: in the DEMMELER webshop

Discover our entire product range for clamping systems, tools and accessories on our website and order conveniently online.



Subscribe to our new YouTube Channel that showcases many products and example applications.











OUR PERFORMANCE makes THE DIFFERENCE

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